

TITLE OF THE INVENTION

Device and method for transforming digital signal

ABSTRACT

In a digital filtering device adopting wavelet transformation, a memory occupancy level of processed data is decreased.

An image is divided into a plurality of first blocks each consisting of (W pixels by H pixels). Wavelet transformation is performed on each of the first blocks in order to produce sub-frequency band blocks LL, LH, HL, and HH. Sub-frequency band blocks LL produced from the first blocks are grouped in order to produce second blocks having the same size as the first blocks. Wavelet transformation is performed again on the second blocks.